Investigation of a Suspected Epidemic



When Informed of Suspected Bacterial Meningitis Cases

Review reports of cases

- do they meet the case definition?
- are they clinically consistent with meningitis?
- what is the attack rate?

Alert nearby health facilities

- have health workers seen cases?
- remind health workers of clinical presentation and case definitions
- Send an investigation team to the field



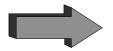
Members of the Investigation Team

- Epidemiologist and / or clinician
- Microbiologist or
- Technician with experience in processing specimens from patients with meningococcal disease
- Driver, community representatives, interpreters, general helpers



Investigation Team Duties

- Verify reported cases
- Investigate new cases to establish diagnosis
- Obtain laboratory specimens
- Get and analyze information about cases
- Make recommendations & report findings





Investigation Team Duties (cont.)

Assess the local ability to respond:

- are cases being managed properly?
- are there enough supplies?
- is there enough staff?
- can they conduct or cooperate with the vaccination campaign?



Analyze Data from Investigation

Person

Place

Time



Analyze Data from Investigation - Person-

- How many cases and deaths?
- What is the case fatality rate?
- What are the ages of cases?
- What are the attack rates and the age-specific attack rates?



Analyze Data from Investigation - Place-

- Where are cases occurring?
- Is the outbreak spreading?
 - Are there accessible health facilities in the affected areas?
- -Show location of cases on maps
- Indicate attack rates in different areas
 - helps follow progress of disease
 - helps plan vaccination campaign



Analyze Data from Investigation -Time -

- When did cases and deaths occur?
- Is the number of cases increasing or decreasing?
- Make graphs showing the number of cases over time.

